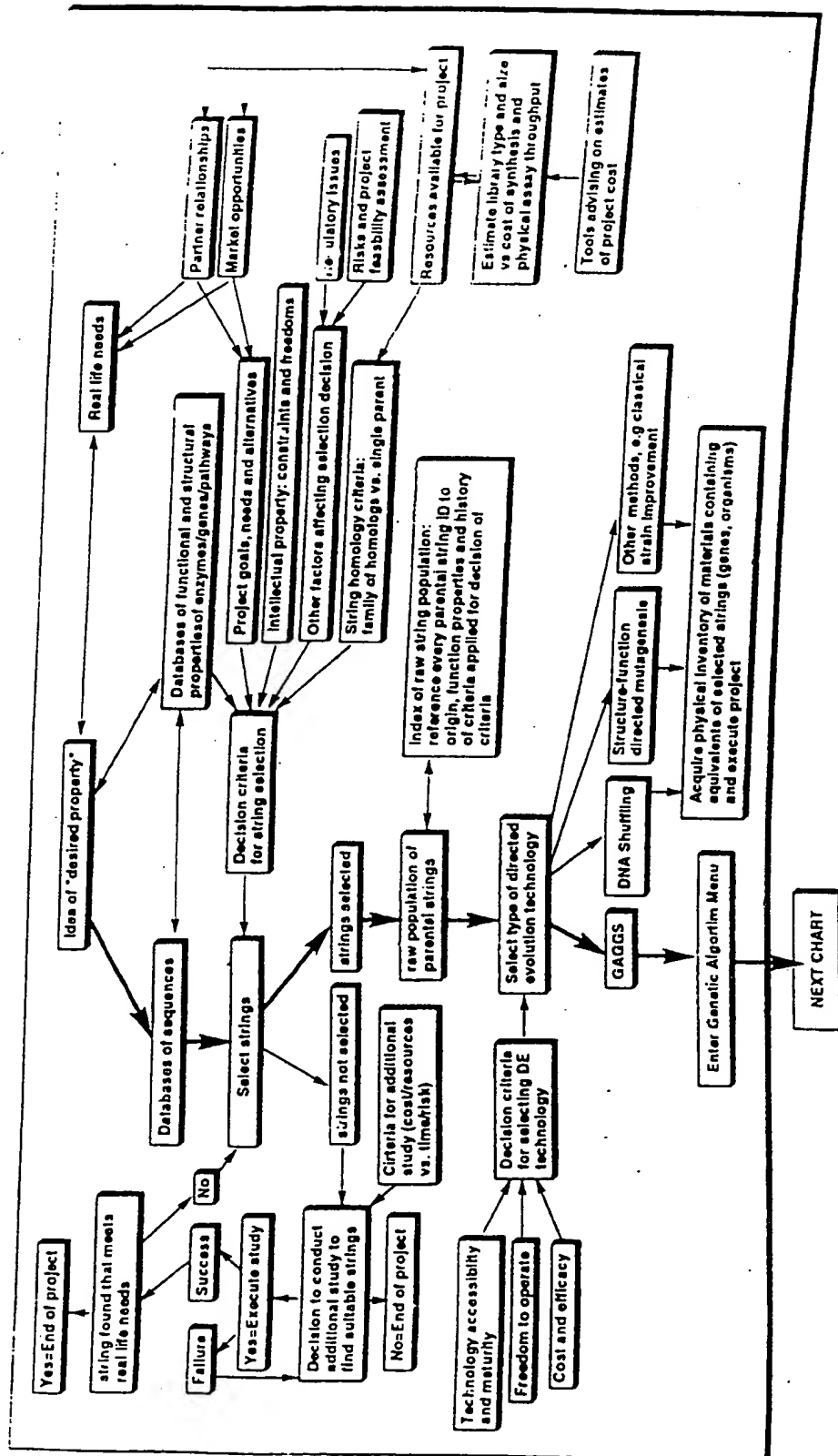


Figure 1



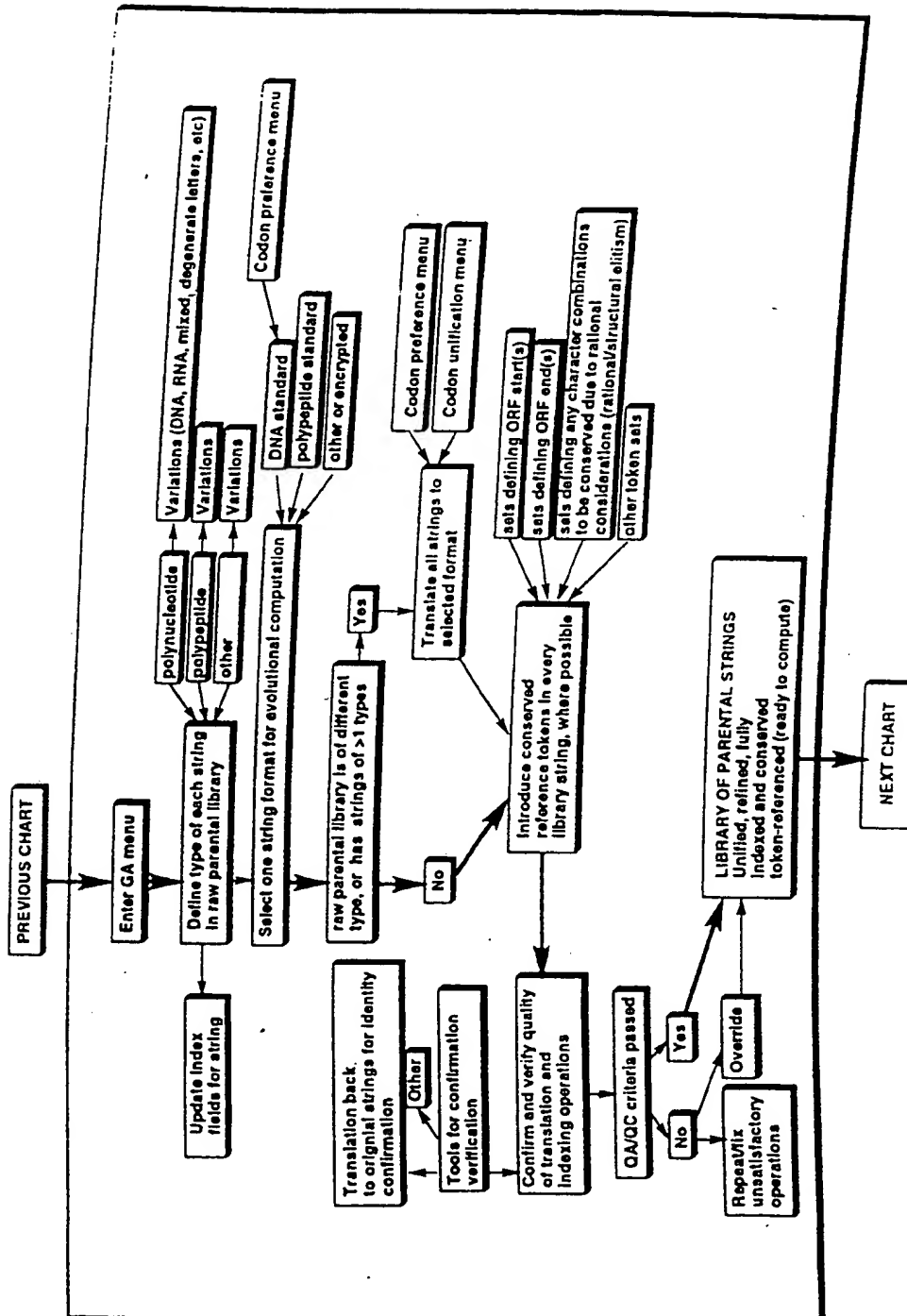


Figure 2

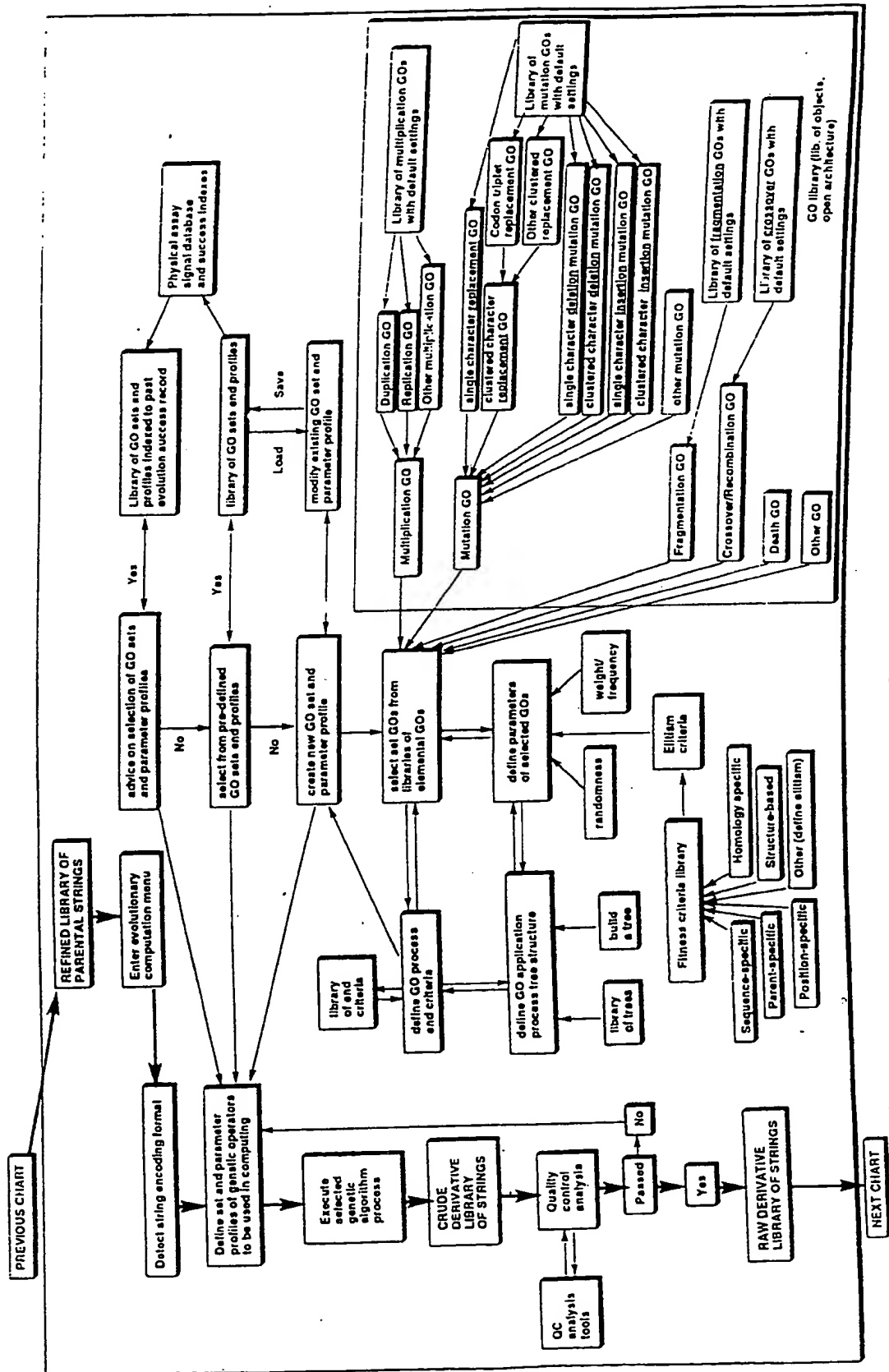


Figure 3

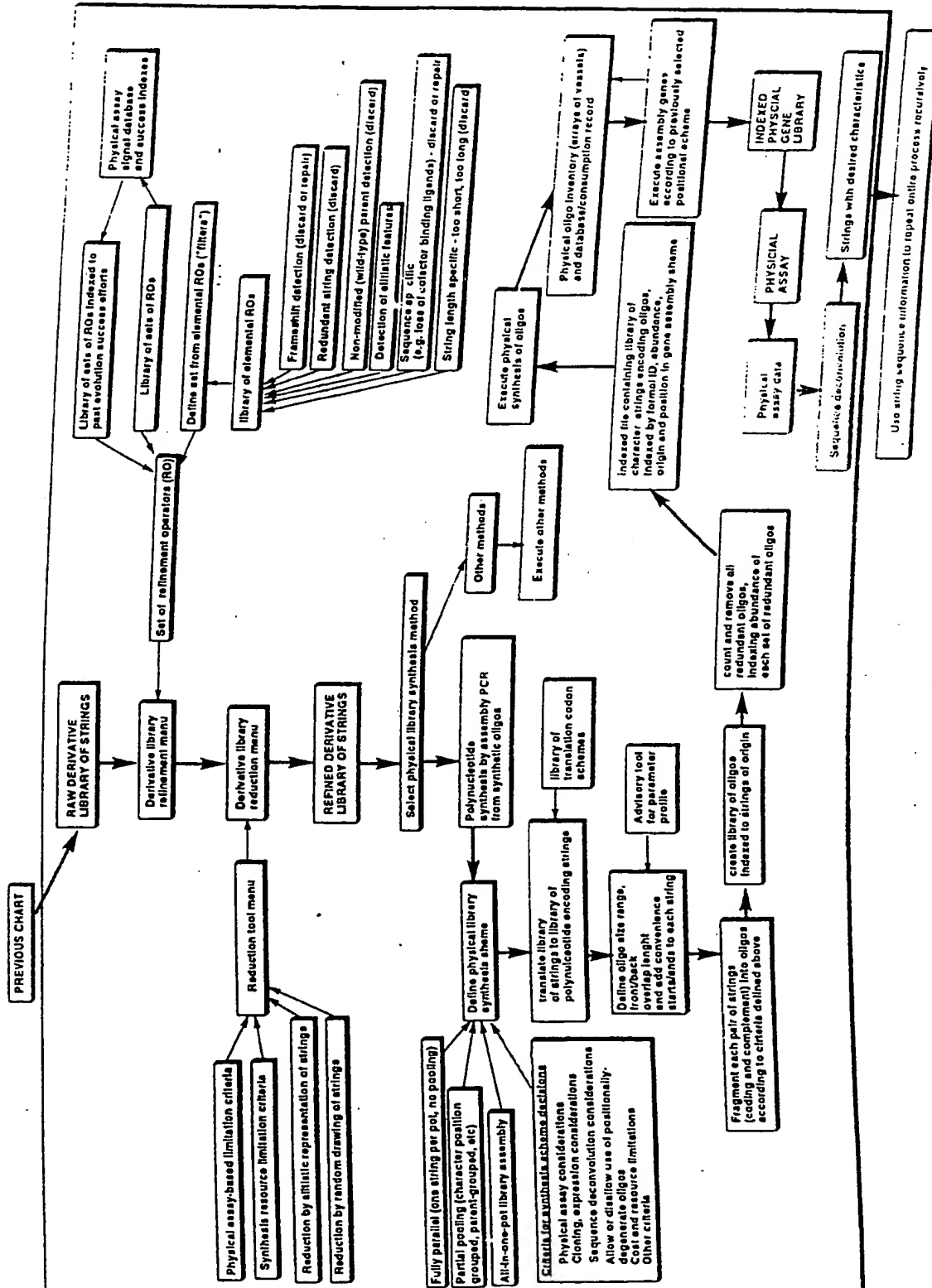


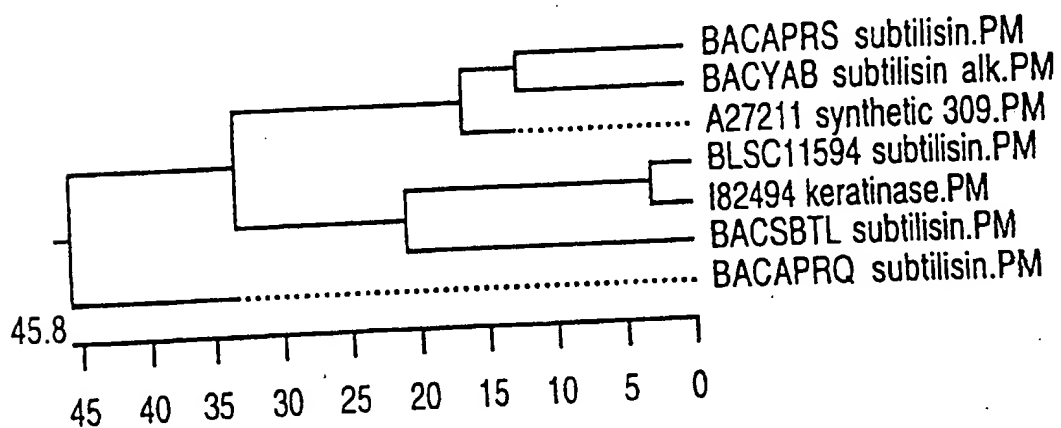
Figure 4

Figure 5

Percent Similarity

	1	2	3	4	5	6	7	
1		62.1	81.4	57.6	81.8	56.1	59.1	1
2	50.5		61.0	54.9	59.5	58.2	60.8	2
3	21.0	52.0		54.6	78.4	50.6	53.2	3
4	54.4	63.3	62.3		52.0	64.6	67.9	4
5	20.5	54.9	25.1	65.6		53.9	56.5	5
6	58.6	56.6	72.2	44.2	63.4		94.9	6
7	52.5	51.4	66.0	38.5	57.8	4.9		7
	1	2	3	4	5	6	7	

A27211 synthetic 309.PM
 BACAPRQ subtilisin.PM
 BACAPRS subtilisin.PM
 BACSBTL subtilisin.PM
 BACYAB subtilisin alk.PM
 BLSC11594 subtilisin.PM
 I82494 keratinase.PM



7/15

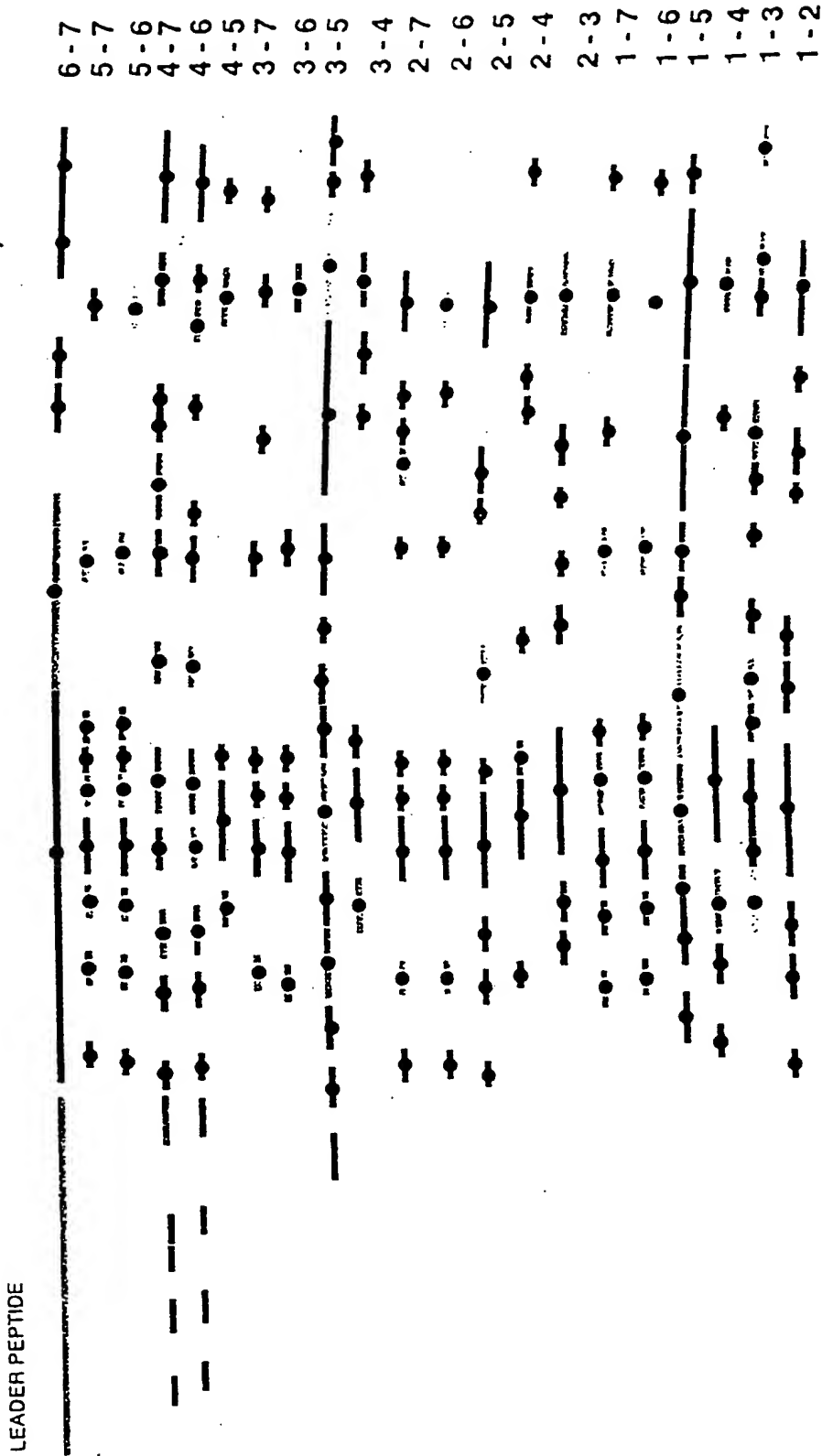


Figure 7

8/15

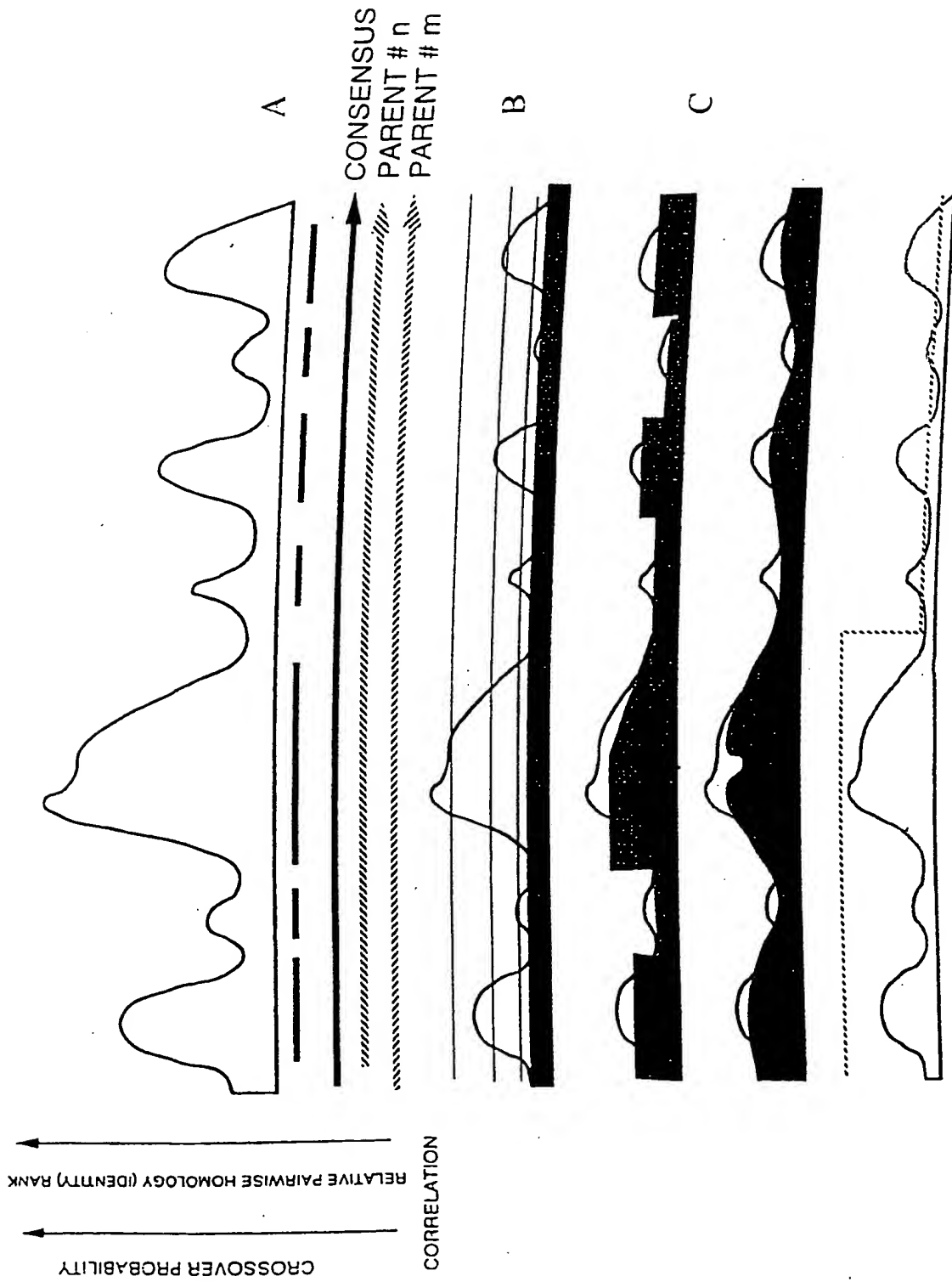


Figure 8

9/15

Figure 9

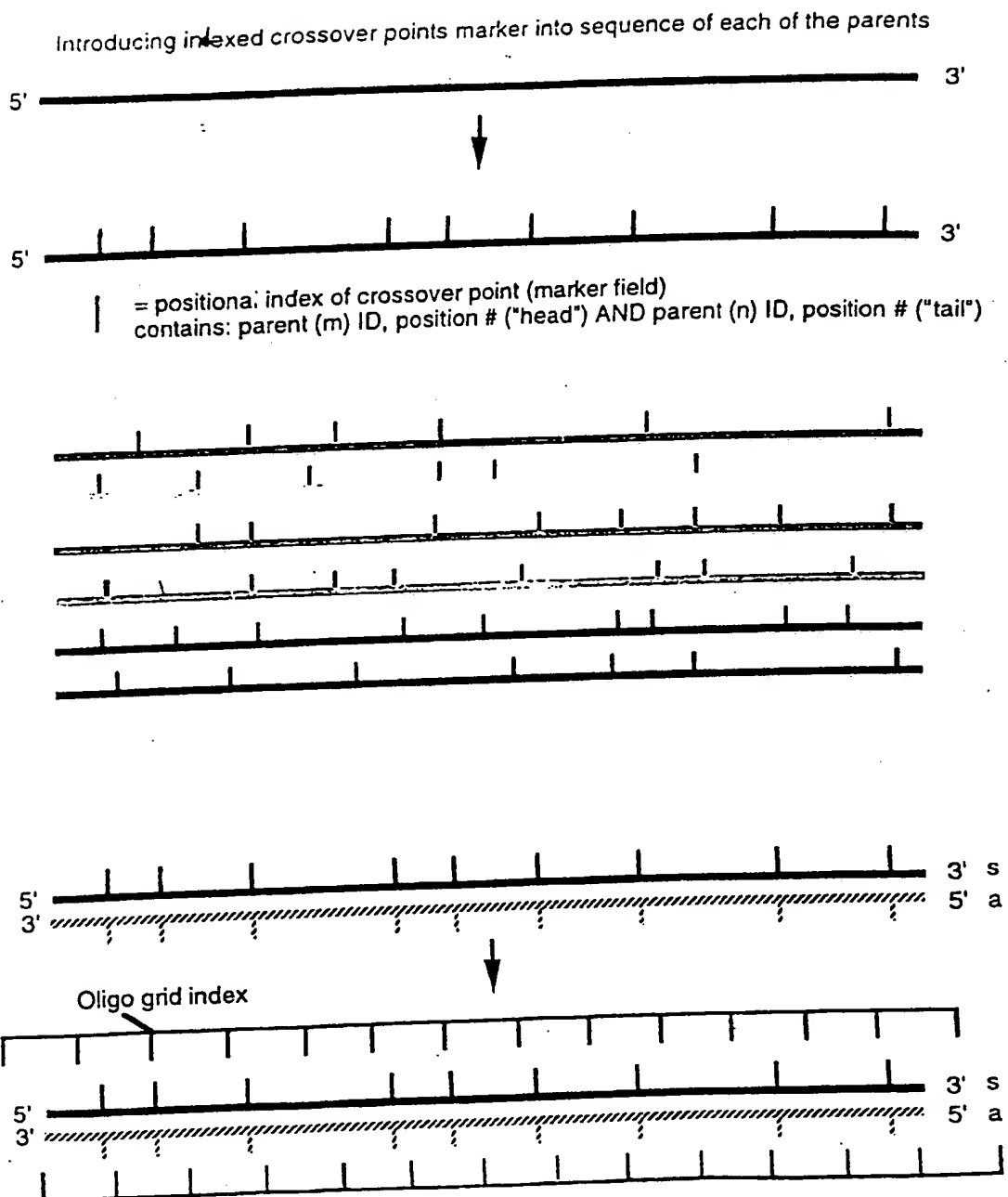
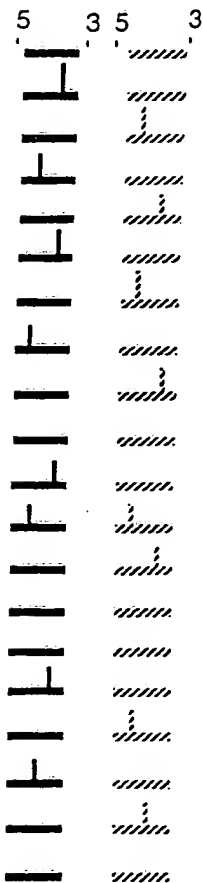
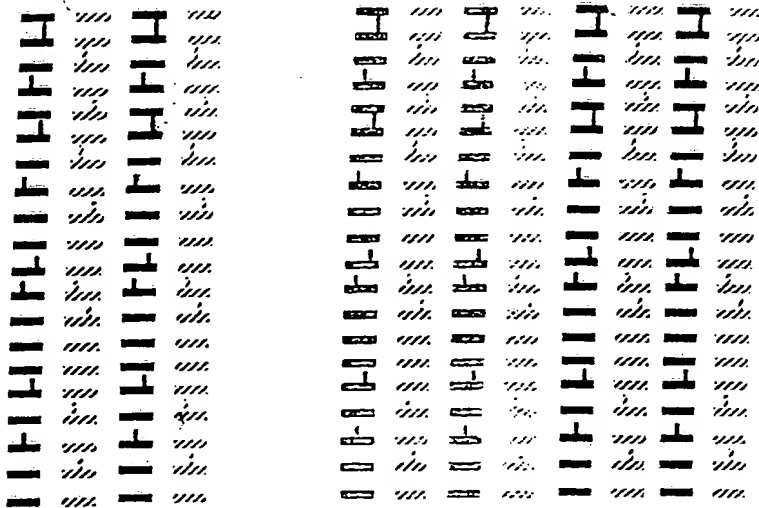


Figure 10

SET OF OILGOS
TO ASSEMBLE A PARENT



COMPLETE INVENTORY OF
OLIGO SEQUENCES
(TO ASSEMBLE ALL PARENTS)



FIND ALL PAIRS OF PAIRS OF
OLIGO SEQUENCES WITH
MATCHING PAIRWISE
CROSSOVER INDEXES

SUB-INVENTORY OF OLIGOS WITH
CROSSOVER MARKERS

11/15

Figure 11

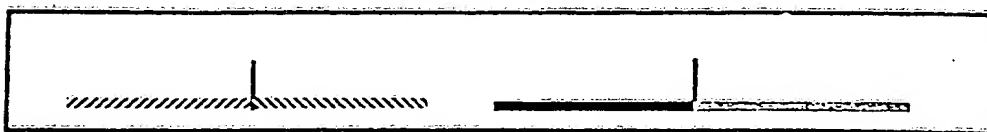
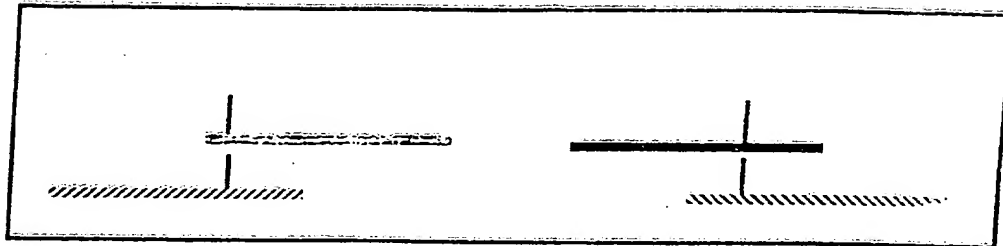


Figure 12

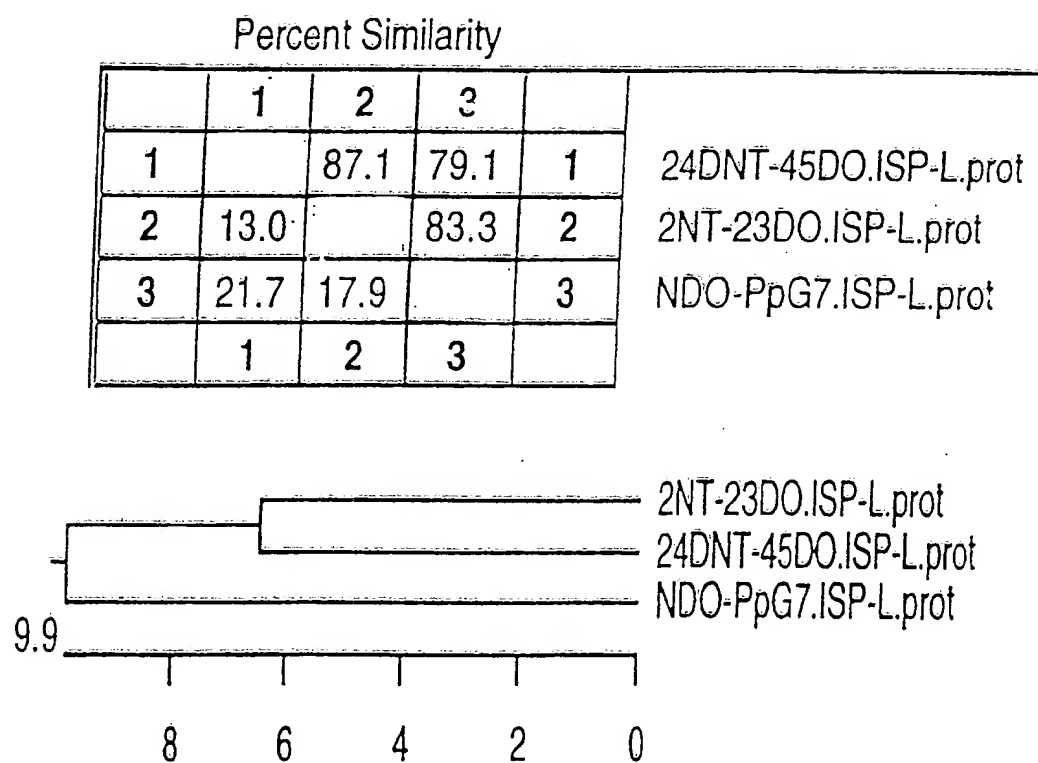
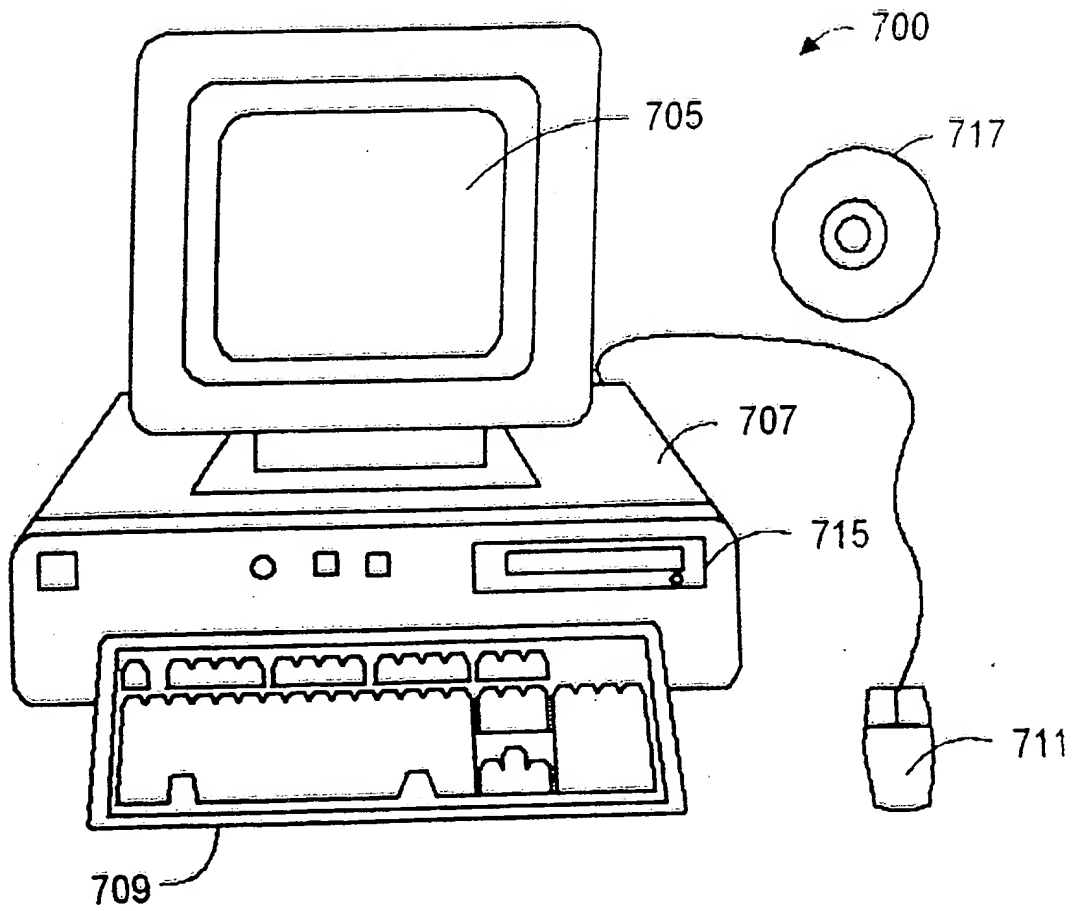
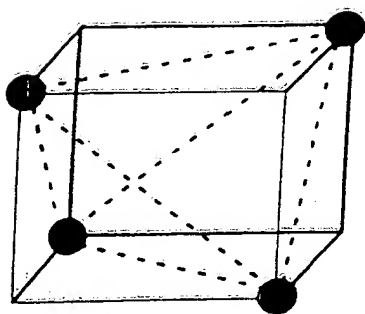


Figure 13



14/15

Figure 14.



Geometric representation
Equal distance between
each nucleotide

A	-1	-1	+1
C	+1	-1	-1
G	-1	+1	-1
T	+1	+1	+1

Numeric representation

15/15

Figure 15

